

iGEM TU/e 2015

Biomedical Engineering

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InterLab Study: Antibiotic Stock Solutions

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1 Antibiotic stocks

1.1 Ampicillin stock (50 mg/ml)

Estimated bench time: 30 minutes

Estimated total time: 30 minutes

Purpose: Making antibiotic stock, necessary for LB-agar plates and the LB medium for small culturing.

1.1.1 Materials

- 0.22 μm filter
- Ampicillin
- Balance
- Eppendorf tubes
- Falcon tube
- MiliQ
- Syringe
- Vortex

1.1.2 Setup & Protocol

- Dissolve 0.25 g ampicillin in 5 ml MiliQ.
- Mix/vortex so that all the ampicillin goes into solution.
- Filter into a falcon tube using a syringe and a 0.22 μm filter for sterilization.
- Aliquot into smaller Eppendorf tubes.
- Store at -20 °C under dark conditions.

1.2 Chloramphenicol stock (35 mg/ml)

Estimated bench time: 30 minutes

Estimated total time: 30 minutes

Purpose: Making antibiotic stock, necessary for LB-agar plates and LB medium for small culturing.

1.2.1 Materials

- 0.22 μm filter
- Balance
- Chloramphenicol
- Eppendorf tubes
- Ethanol (100%)
- Falcon tube
- Syringe
- Vortex

1.2.2 Setup & Protocol

- Dissolve 0.136 g of chloramphenicol into 4 ml 100% ethanol.
- Mix/vortex so that all the chloramphenicol goes into solution.
- Filter into a falcon tube using a syringe and a 0.22 μm filter for sterilization.
- Aliquot into smaller Eppendorf tubes.
- Store at -20 °C.